IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): ~~Sandwich~~ A sandwich panel core, wherein ~~being~~ the core is a 3-D structure formed from polymeric paper, ~~with~~ a binder layer is applied onto ~~its both sides~~ a top and a bottom of the core, ~~is characterized by that it includes the perforated~~ the paper [[base]] includes perforation holes, and the binder layers bond to each other at a location of the perforation holes. ~~whereof the binder layers thickness is decreased whereas the decrease value, the quantity of the perforated holes and their diameter satisfy the condition~~

$$\frac{n_h \cdot \frac{\pi \cdot d_h^2}{4}}{\delta_p\left(1-\frac{\rho_p}{\rho_b}\right)} > \frac{2 \cdot \Delta_b \cdot F}{\delta_p\left(1-\frac{\rho_p}{\rho_b}\right)}, \text{ where}$$

~~n_h is the quantity of holes,~~

~~d_h is the diameter of holes, .~~

~~Δ_b is the binder layer thickness decrease,~~

~~F is the core surface area,~~

~~Δ_p is the base layer thickness,~~

~~ρ_p is the paper base material density,~~

~~ρ_b is the binder density.~~

Claim 2 (New): The sandwich panel core according to Claim 1, wherein the binder layers are made of phenol-formaldehyde resin.

Claim 3 (New): The sandwich panel core according to Claim 1, wherein the top binder layer has an inner surface bonded to the paper, and an outer unbonded surface.

Claim 4 (New): The sandwich panel core according to Claim 1, wherein the bottom binder layer has an inner surface bonded to the paper, and an outer unbonded surface.

Claim 5 (New): The sandwich panel core according to Claim 1, formed by a process comprising:

applying binder layers to the top and bottom of the paper in a liquid state;

bonding the binder layers to each other at locations of the perforation holes; and

thermally hardening the binder layers.